Update on HP Operations
Agents for NonStop:

OVNM 5.1 and OVNPM 1.5

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Presenters

• Robert (Bob) Loftis
  - HP Product Mgr
    • Business Service Mgt
    • HP Operations Agents
    • Business Continuity Suite

• Jon Harms
  - ESQ Business Services
    • Account Mgr, US Sales
    • Long time Tandem and NonStop solution architect and sales specialist

• Mark Washelski
  - ESQ Business Services
    • Product Support Mgr
    • Long time Tandem and NonStop technical specialist
Agenda

• Overview (Bob)
  – Operations Agents in HP NonStop systems manageability
  – Design goals, sample views
  – NonStop systems within the enterprise

• Talking with Customers (Jon)
  – What gets most interest

• Managing and Monitoring DEMO (Mark)
  – OVNM Console: policies, thresholds
  – OVNPM performance monitor
  – Troubleshooting

• Summary and Q&A (Bob)
HP NonStop Manageability Strategy

“To provide customers the best total cost of ownership (TCO) with modern manageability and serviceability products integrated with HP Unified Infrastructure Management”
NonStop manageability integrated with HP manageability infrastructure

- Common view for management of all HP platforms
- Manage NonStop in heterogeneous environments
- Increase operator productivity and reduce operator training costs - reduce specialization based on platform
- Extend manageability up to application level
HP NonStop Manageability Portfolio

Focus of OVNM/PM

• Enterprise Integration
  – Managing the whole network and multiple systems
  – Sophisticated performance management and automated actions
  – Managing system efficiency

• System Monitoring and Management
  – Checking events
  – Monitoring performance
  – Taking corrective actions

• Basic Operations
  – Installation and configuration
  – Coldload
  – Hardware/microcode management
HP NonStop Manageability Solutions

- **OVNM** (former “OpenView”)
  - Now HP Operations Agent for NonStop
    - detects app and infrastructure problems and failures
    - business-focused
    - larger enterprise-oriented

- **OVNPM**
  - Now HP Performance Agent for NonStop
    - monitors real time performance
    - identifies trends for capacity planning
    - uses Measure data
    - web-based (Navigator)
    - Optional data analyzer display and reports
Design goals of agent-based products

• Strong business value orientation
  – efficient integration to larger business view
• Easy management of NonStop systems, applications
• Modern design and interface
• Easy for new-to-NonStop staff to learn
• Graphical approach to data analysis
• Preference to “alert as needed/directed” and automated actions, less user monitoring
Operations Agent for NonStop - OVNM

Provides object monitoring and event processing

- Automatic discovery of NonStop objects
- Processes subsystem and application events
- Provides customized threshold setting
- Sends messages upon violations
- Supports ACI Base24, Telco (HLR, INS), MQ Series
- Easy interface/instructions with HP Operations
- Provides NonStop data to other enterprise systems
  - IBM Tivoli (requires additional adaptor product)
  - BMC Patrol, IBM NetCool
  - any SNMP-based mgt server
New OVNM Console
HP Operations Enterprise View
HP Performance Agent for NonStop

- Monitors business applications
- Web-based, real time graphs, drill downs
- Sends performance alerts to enterprise consoles
- Analyzes historical trends, supports capacity planning
- GUI-based performance views
HP Operations Agent(s) for NonStop

Full-featured, robust manageability for NonStop system and performance: events, messages, thresholds, capacity planning, and more

NonStop environment

HP provides Agents that work in NonStop-only environments as well as in multi-platform environments...
Fitting into HP Operations Center

(formerly OpenView)

HP Operations Center software

HP Operations Mgr for Windows or Unix Console

NonStop environment

NonStop objects and events easily managed from an HP Operations Manager console, and integration with:

- HP Network Node Manager (NNM)
- HP Reporter
- HP Service Navigator (UNIX)
Beyond HP Operations - Tivoli

(formerly OpenView)

HP Operations Center software
HP Operations Mgr for Windows or Unix Console

An HP Tivoli Adapter moves NonStop objects and events into the world of IBM enterprise management.
..and other well-established environments

(formerly OpenView)

HP Operations Center software

HP Operations Mgr for Windows or Unix Console

New SNMP adaptors now take NonStop into BMC, NetCool, and other enterprise management solutions

IBM/Tivoli Managed Enterprises

Other SNMP Managed Enterprises (BMC, NetCool, etc)
Agenda

Speaker change – stay tuned

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• Summary and Q&A (Bob)
What gets most interest

- Quick start up: less NonStop experience required
- Flexible alerting, centralized control
- Fits into common enterprise management schemes
- Graphical-orientation, optional off-platform analysis
- Real-time reporting
- Affordable
And now a demo by Mark

- OVNM architecture overview
- OVNM Console
- Policies and thresholds (RDF monitoring)
- OVNPM Navigator and optional Data Analyzer

**NOTE:** Try stretching your VR window if demo visibility is limited
Event actions and escalation

**OVNM action options**

- Change severity for OVNM Console
- Execute recovery command
- Send email/page
- Fwd to Enterprise Mgr (modify event text/severity)
- OVNM5.0 Object Event escalation time period

- Send email/page

- Change severity/event text
- Execute recovery command
- Fwd to Enterprise Mgr

This support requires OVNM Configuration modification

Use EMS Burst detection for Escalating SUBSYSTEM generated EMS EVENTS
OVNPM 1.5 – big picture

Real-time Analysis
Browser interface

Advanced
Real-time Analysis
Trend Analysis

Provides
Trend Reports.
for HP Reporter
(If installed)

Near Real Time
Real-time Analysis
Trend Analysis
Reports - Excel

Workstation

OVNPM Agent
MEASURE data

Windows 2003

IIS/.NET
SQL Server 2005

Data Analyzer

NEW!
OVNPM 1.5 Data Analyzer Dashboard
OVNPM 1.5 - Data Analyzer

HP NonStop

Performance Data

Network

Windows Server 2003

Browser Interface
OVNM/OVNPM Bundle

OVNM Console

OVNM Agent

OVNPM Agent

MEASURE data

OVNPM event data

TCP/IP

HPOM/OVO

HPOM/OVO Plug-in

IBM Tivoli

SnMP Adapter

Tivoli Adapter

optional

BMC/Netcool/NNM
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Releasing in late January

• **OVNM**: OV01v5, HOV01v5, QOV01v5 (all Update1)
• **OVNPM**: OV02v1, HOV02v1, QOV02v1 (all Update 5)
• Bundle: OV03v3, HOV03v3, QOV03v3 (all Update 4)

NOTE: For best results when replacing another mgt. system, encourage NonStop SDI service implementation

• [www.hp.com/go/nonstop/operationsmanagement](http://www.hp.com/go/nonstop/operationsmanagement)
Now Operations data can be merged with Business Service Management data

(formerly OpenView)

OVNM Mgt Console s/w included

HP Operations Center software

HP Operations Mgr for Windows or Unix Console

HP Operations Mgr for Windows or Unix Console

Tivoli Adapter for NonStop

HP Performance Agent for NonStop

HP SST NonStop Agent

NonStop environment

IBM/Tivoli Managed Enterprises

NonStop environment

Other SNMP Managed Enterprises (BMC, etc)

Service Center, Remedy

Transaction Analyzers

SST Operations Bridge

Wintel Server for SST mgt

Transaction Analyzers

SST Operations Bridge

HP Performance Agent for NonStop

Wintel Server for SST mgt

HP SST Mgt Console s/w included
Problem Solving – Root Cause Analysis
Product Strengths

**OVNM/PM**

- Lower cost
- Simpler to deploy
- Easier to customize
- Very user friendly
- Works in homogeneous environments
- Brings NonStop data to other enterprise mgt systems
- Good data visualization
- Lower system resource use
Feature match 1/4

- Complex conditionals (for ex, simple conditional is CPU > 80%)
- Time of day and day per week
- Cross record thresholds
- Execute commands with automated response or based on thresholds
- Thresholds based on both Measure and non Measure data
- Product has paging and notification with escalation
- Generate SNMP traps based on met conditions
- Integrated with Remedy, HP OpenView, Tivoli, CA Unicenter, etc.
- User defined visual alarms
- Mapping of logical displays for Ops Center staff
Feature match  2/4

- Granularity of interval down to second (15 sec, practical)
- Fat client, GUI, and Web GUI
- Fully modify standard displays (font, style and color)
- Either tabular or graphical format in 2 or 3 dimensions
  - 3D with optional data analyzer
- User-defined, context-sensitive, drill downs and links
- User prompting to search for variable
- Field creation based on existing data elements
- Display of Total, Subtotal, Average
- “Where Clause” filtering to limit data display
Feature match 3/4

- Multiple node and cross platform display in single view
- Full security access and control
- Combined multiple fields or entities in summary displays
- Samples and subsets of displays out-of-the-box
- On Board/Off Board reporting
- Reporting available through GUI
- Automatic data collection/summary: single and multiple nodes
- Dynamic web publishing planned
- Tabular and graphical formats in reports
- Customized exec reports: performance, capacity, service level
  - optional data analyzer
Feature match  4/4

- Trend analysis in reports
- Data segregated and stored outside of the product
- Features for Audit and compliance (not yet)
- Full Measure data
- Full disk-to-volume, sub-vol, file for physical/logical levels with path statistics
  - considering this
- EMS event monitoring
- J2EE, OSS, MQ Series, Pathway, TMF, RDF, NetBatch data, RDF
- Detailed transaction data collection/analysis for custom app log files
- Integration of application data
- TCP/IP for both Measure and Non Measure to Socket Level
- Application level monitoring
- Multi component monitoring, including cross platform
- Service Level monitoring and tracking
Thank you!

Bob, Jon, Mark

• [www.hp.com/go/nonstop/operationsmanagement](http://www.hp.com/go/nonstop/operationsmanagement)